

**SYSTEMS AND METHODS FOR MULTI-OBJECTIVE PORTFOLIO ANALYSIS
AND DECISION-MAKING USING VISUALIZATION TECHNIQUES****ABSTRACT OF THE DISCLOSURE**

The systems and methods of the invention are directed to portfolio optimization and related techniques. For example, the invention provides a method for multi-objective portfolio optimization for use in investment decisions based on competing objectives and a plurality of constraints constituting a portfolio problem, the method sequentially comprising: generating a non-dominated solution set in a space; applying a first set of user-specified constraints to reduce the solutions in the non-dominated solution set to a solution subset; and executing a series of local tradeoffs on the solution subset to result in a resulting solution subset, the local tradeoffs being performed in a lower dimension performance space as compared to the space, and the solution subset being used in investment decisioning.